

BDAR Maintainer-Level Kit



Complete Kit NSN: 5180-01-502-9507

Kit cost: \$469.00

BDAR Maintainer Kit Toolbox

- Vendor PN: 8260GY-4
- NSN not assigned
- used to store components
- made of rugged plastic to minimize wear and tear
- included tray with carry handle



Components Listing

- Vendor PN:
SBDARMCL 30JUL04
- includes all items in Maintainer-level kit
- contains part numbers, NSNs and telephone numbers needed to re-supply kit.
- has a protective plastic coating to prevent water and oil damage

[illegible]

DD Form 1577

- NSN not assigned
- ordered through unit publication account
- used to document BD repairs



NOTE: Complete DD Form 1577 and place on or near the repaired item or in the operators compartment

Wire, Stainless Steel, Non-electrical

- NSN: 9505-00-221-2650
- softer than standard lacing wire to conform better to repair areas
- can be used to wrap and reinforce fluid line repairs
- can be used as lacing wire on non-rotating components



Wire, Electrical

- NSN: 6145-01-245-8855
- 22 gauge wire (black)
- NSN: 6145-01-099-8029
- 16 gauge wire (white)
- 16 and 22 gauge wire are most dominant gauge wire for most military vehicles



Putty Repair, Fiberglass

- NSN: 8040-01-346-1339
- no mixing required
- cures in ultraviolet light
- can be used to repair non-metallic items on such as radiator overflow reservoir, windshield washer fluid reservoir, fan shrouds, etc.



NOTE: This item will soon be removed from the kit because it requires ultraviolet light to cure.

Leak Preventative Compound, Radiator

- NSN: 6850-00-598-7311
 - can be poured directly into radiator to stop small leaks.
 - repair should not be considered permanent, however, finding the area to repair is difficult
-
- NOTE: Ensure DA Form 5988E or DA Form 2404 are annotated and radiator is tagged with DD Form 1577



Sealing Compounds

- used for making and repairing gaskets
- used in sealing electrical connections after repairs are made to prevent corrosion
- RTV Blue NSN: 8030-01-323-4503
 - Temperature rating for this material is -65 DEG-500 DEG Fahrenheit.
- RTV Red NSN: 8030-01-212-9622
 - Temperature rating for this material is -75 DEG-650 DEG Fahrenheit.



Wire Brush, Scratch

- NSN: 7920-00-282-9246
- used to roughen smooth surfaces to allow better adhesion
- used for preparation of damaged areas prior to applying cleaning solvents and polymers.



Cable Ties, Nylon Black

- NSN: 5975-00-985-6630
- 14" long
- 120 Lbs tensile strength
- used to:
 - secure wires, cables, hoses
other loose items.
 - secure patches over damaged
hoses during polymer curing.
- NOTE: Cable ties are made of high-strength plastic, but can slip or melt if applied to areas with high heat.



Various Tapes in BDAR Kit

- Tape, Insulating Electrical, 3/4" - 50 Ft. NSN: 5970-00-788-4901, can be used to seal as well as insulate
- Tape, Aluminum, 2" - 60 yds. NSN: 7510-00-684-8803, used in areas that can reach up to 300 DEG Fahrenheit. Works well on exhaust manifold leaks.
- Cloth Duct Tape, 2" - 60 yds. NSN: 5640-00-103-2254, many creative uses
- Anti-seize Tape, 1/2"- 20 Ft. NSN: 8030-00-889-3535, used to prevent brass or steel fittings from seizing from corrosion. Also helps to seal threads.



Hose Clamps, Worm Drive Type

- 4 sizes are included
 - 4", NSN: 4730-00-908-6293
 - 3", NSN: 4730-00-908-6292
 - 2", NSN: 4730-00-909-8627
 - 3/4", NSN: 4730-00-908-3194
- Hose clamps are constructed of high-strength stainless steel and can serve to:
 - replace broken spring clamps
 - splice broken fluid lines
 - reinforce rubber and steel hose repairs
 - connect severed battery cables
 - secure hoses and other loose hardware



Wire Connectors and Parts Box

- NSN, arranged from largest to smallest
 - Yellow, NSN: 5940-00-578-22
 - Orange, NSN: 5940-00-665-9
 - Blue, NSN: 5940-00-146-2
 - Gray, NSN: 5940-00-185-6675
- Container, Small Parts
NSN: 8115-00-099-4380, holds the wire nut assortment in the BDAR kit.
- Wire Connectors can be used to splice a wide range of broken electrical wires.
- Should be installed with silicone sealant



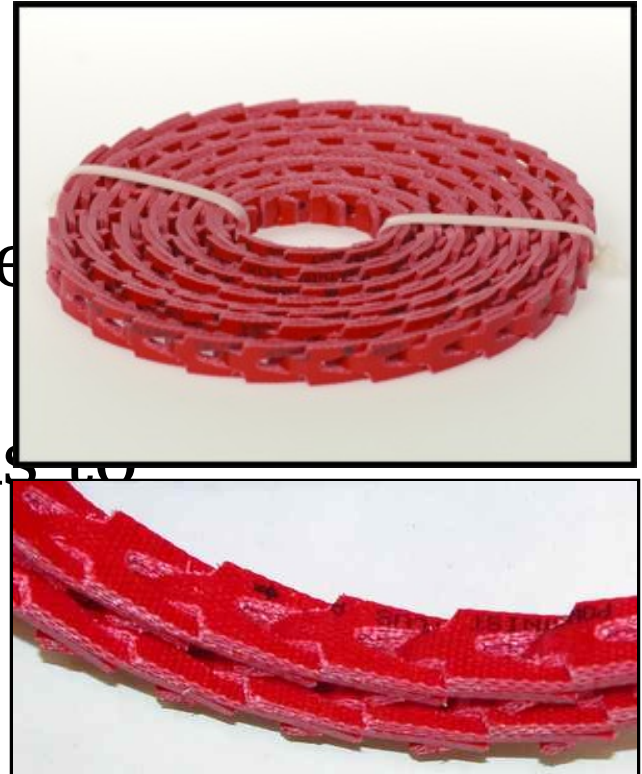
Tire Repair Kit

- NSN: 2640-01-374-6041
- used to repair punctured tires
- Multiple plugs may be used on larger puncture holes.
- Kit Consists of:
 - Spiral Probe Tool, NSN: 5120-01-475-0667, used to ream puncture and spread steel belts blocking hole
 - Insertion Needle, NSN: 5120-01-475-0668, used to insert plug
 - Special Lubricant, NSN: 2640-01-373-8903, used on punctured area and needle prior to inserting plug
 - 30 Repair plug strands, 6" long each. NSN not assigned



Fenner® Adjustable Drive belt

- NSN: 3030-00-224-8358
- 96" roll included in kit.
- used to replace damaged engine component drive belts
- add or remove excess links to adjust size



- NOTE: These belts are directional and must be applied to rotate in the direction of the arrow printed on the inside of the belt.

Belzona 2311 SR Elastomer®

- NSN: 8040-01-519-768
- has a 1:1 mixing ratio
- cures within a matter of minutes
- used to repair damaged tires, cracked batteries, plastic radiator tanks, and damaged radiator hoses



Belzona 1221 Super E metal[®]

- NSN: 8030-01-519-8288
- has a 1:1 mixing ratio
- cures within a matter of minutes
- used to make low strength metal repairs



- CAUTION: This product contains metal.
Do not use to make electrical repairs

Belzona111 Super Metal®

- NSN: 8030-01-519-828
- has a 2:1 mixing ratio
- provides more working time than Belzona 121
- used to make low stress metal repairs



- CAUTION: This product contains metal. Do not use to make electrical repairs

Belzona 9111 Cleaner/ Degreaser®

- NSN: 7930-01-518-874
- removes grease and grime off the damaged materials
- must be used prior to applying any of the polymers contained in the BDAR kits
- NOTE: Do not use on rubber products



Belzona 2911 QD Conditioner®

- NSN: 8040-01-519-8282
- ensures better adhesion to plastic and rubber items
- used to prepare rubber or plastic items prior to Elastomer® repair



Belzona 9411 Release Agent®

- NSN: 8040-01-519-7681
- placed on areas where Belzona® products should not adhere to, such as battery posts, bolt threads, rubber or plastic seals,
- can be used on the undamaged portion when making mating surface casting repairs



Belzona® Reinforcement Cloth

- NSN: 8030-01-519-4422
- 3" wide by 1 meter portion included in kit
- used to reinforce Belzona® product repairs
- used as a backing-type plate for the Belzona® polymers to prevent sagging inside holes



Belzona Metal Plug® or PartsMaster Mega Stick®

- NSN: 8030-01-519-7679
- both items have similar properties with comparable results
- product cures within a matter of minutes
- used for plugging holes in metal or plastic prior to Elastomer® or Super Metal® repairs



Belzona® Applicators

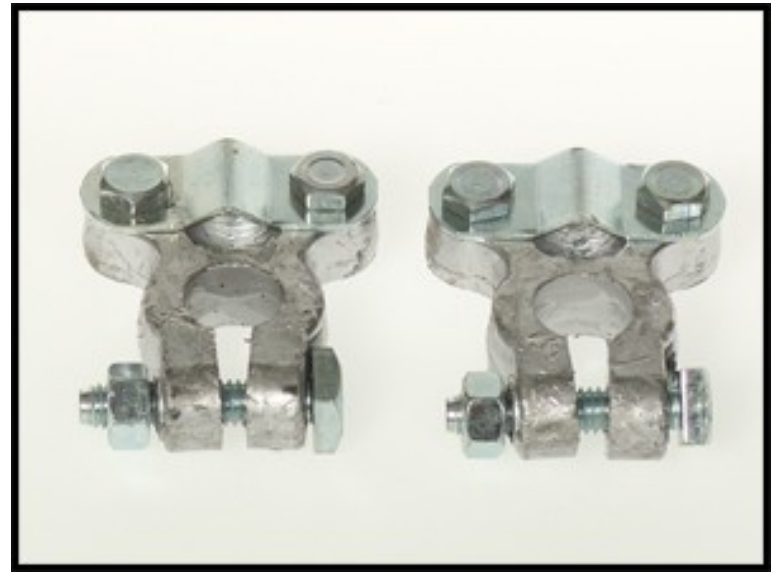
- Spatulas
NSN: 5120-01-519-47
- Spreader
NSN: 5120-01-519-473
- used to mix and apply
Belzona® products



- NOTE: Flex applicators after product has cured to remove from applicator

Battery Connectors, Heavy Duty

- NSN: 5940-00-549-6581
- easy installation
- metal band reinforced
- can be melted in soda or food container to repair battery post



Gloves, Latex Disposable

- NSN: 6515-01-329-4833
- used when mixing polymers in the BDAR kit
- can be cut and used as gasket material



- CAUTION: This product contains latex rubber and can cause skin irritation for persons with allergies to latex

Facemask, Dust Filtering

- NSN: 4240-01-492-0177
- used when applying Fiberglass Putty repair resin to the damaged area
- used when hand sanding or wire brushing any painted surface



CAUTION: This mask does not filter organic or hazardous chemicals from the air. Please use appropriate respirator protection when grinding CARC paint or other hazardous materials

Static Discharge Wrist Ground

- NSN: 5920-01-154-1039
- used to discharge static electricity from your body
- must be connected to vehicle chassis prior to touching electronic equipment
- connection must remain until repairs are completed



Mini Hacksaw w/ Blades

- Hacksaw body
- NSN: 5110-01-491-5760
- Blades, 10", 24 Teeth
- NSN: 5110-00-277-4588
- used for cutting metallic and non-metallic fluid lines
- can cut steel lines or other small material for patch repair



Mini Utility Knife

- NSN: 5110-01-428-5220
- used for all types of cutting
- small size and retractable blade allows knife to be carried in pockets or on soldier's key chain



Abrasive Cloth (40 Grit)

- NSN not assigned. Use 1 sources to replenish
- used for surface preparation prior to applying any of polymer's in the kit
- surface preparation is vital to any polymer repair
- CAUTION: Dust mask must be used when sanding materials to minimize inhalation



Environmental Plugs

- used for plugging hydraulic reservoirs, hulls or fuel tanks
- NSN not assigned
- use vendor part numbers listed below for replenishment



- 2 inch Plug Vendor PN: RBDAR64G2
- 4 inch Plug Vendor PN: RBDAR65G2

Hydraulic Line Fittings

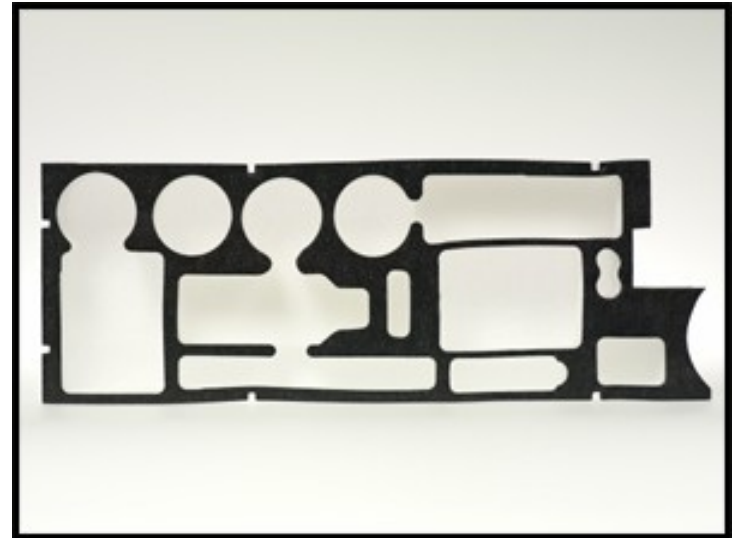
- 3/16" NSN 4730-00-289-1
- 1/4" NSN 4730-00-278-8
- 5/16" NSN 4730-00-278-3
- 3/8" NSN 4730-00-289-0
- used to repair high and low pressure hydraulic or fuel lines
- repairs to metal fluid lines can often be considered permanent repair



CAUTION: Repair on brake lines cannot be considered permanent repair

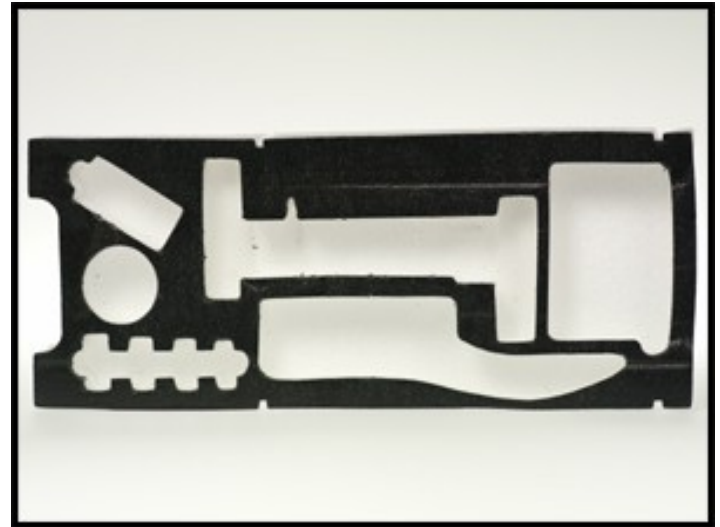
Bottom Foam Tray

- NSN not assigned
- Vendor PN: RMKBT-47G2
- made of lightweight foam material with custom fit compartments
- protects items in the kit from rubbing and puncture
- helps organize components and make them quick to locate



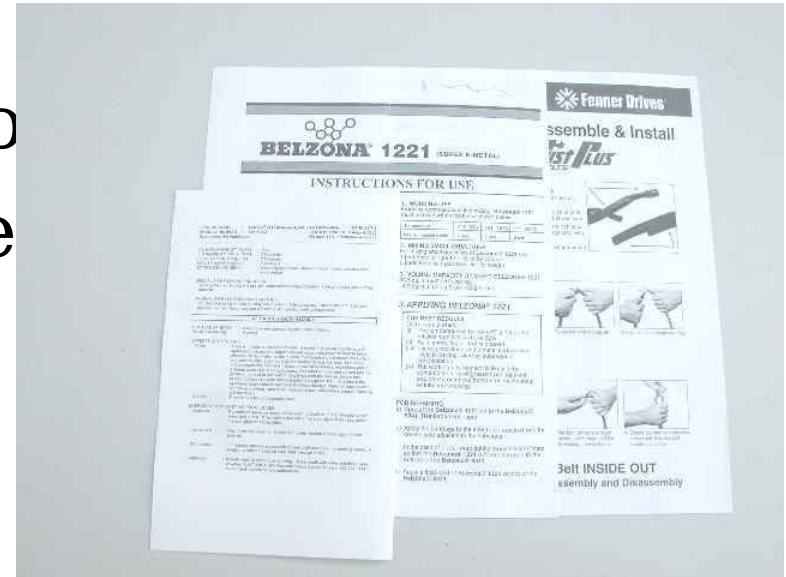
Top Foam Tray

- NSN not assigned
- Vendor PN: RMKTT-30JUL04
- same design and purpose as the bottom tray
- easily removed to gain access to lower tray



MSDS and COTS Literature

- MSDS provides safety information for the product in the kit with emergency phone numbers



- Commercial off the Shelf (COTS) literature provides a quick reference on the use of non self-explanatory items in the kit